3342. Find Minimum Time to Reach Last Room II

Solved ●

Medium Topics Companies Hint

There is a dungeon with `n x m` rooms arranged as a grid.

You are given a 2D array `moveTime` of size `n x m`, where `moveTime[i][j]` represents the **minimum** time in seconds when you can **start moving** to that room. You start from the room `(0, 0)` at time `t = 0` and can move to an **adjacent** room. Moving between **adjacent** rooms takes one second for one move and two seconds for the next, **alternating** between the two.

Return the **minimum** time to reach the room `(n - 1, m - 1)`.

Two rooms are **adjacent** if they share a common wall, either *horizontally* or *vertically*.

Example 1:

> **Input:** moveTime = [[0,4],[4,4]]
>
> **Output:** 7
>
> **Explanation:**
>
> The minimum time required is 7 seconds.
>
> - At time `t == 4`, move from room `(0, 0)` to room `(1, 0)` in one second.
> - At time `t == 5`, move from room `(1, 0)` to room `(1, 1)` in two seconds.

Example 2:

> **Input:** moveTime = [[0,0,0,0],[0,0,0,0]]
>
> **Output:** 6
>
> **Explanation:**
>
> The minimum time required is 6 seconds.
>
> - At time `t == 0`, move from room `(0, 0)` to room `(1, 0)` in one second.
> - At time `t == 1`, move from room `(1, 0)` to room `(1, 1)` in two seconds.
> - At time `t == 3`, move from room `(1, 1)` to room `(1, 2)` in one second.
> - At time `t == 4`, move from room `(1, 2)` to room `(1, 3)` in two seconds.

Example 3:

> **Input:** moveTime = [[0,1],[1,2]]
>
> **Output:** 4

Constraints:

- `2 <= n == moveTime.length <= 750`
- `2 <= m == moveTime[i].length <= 750`
- `0 <= moveTime[i][j] <= 10^9`

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Yes No

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Hint 1

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